



# **Navy Marine Corps Spectrum Center (NMSC)**

**USN-USMC Spectrum Conference  
San Diego, Ca**

**Tom Downie  
Director, NMSC  
March 8, 2011**

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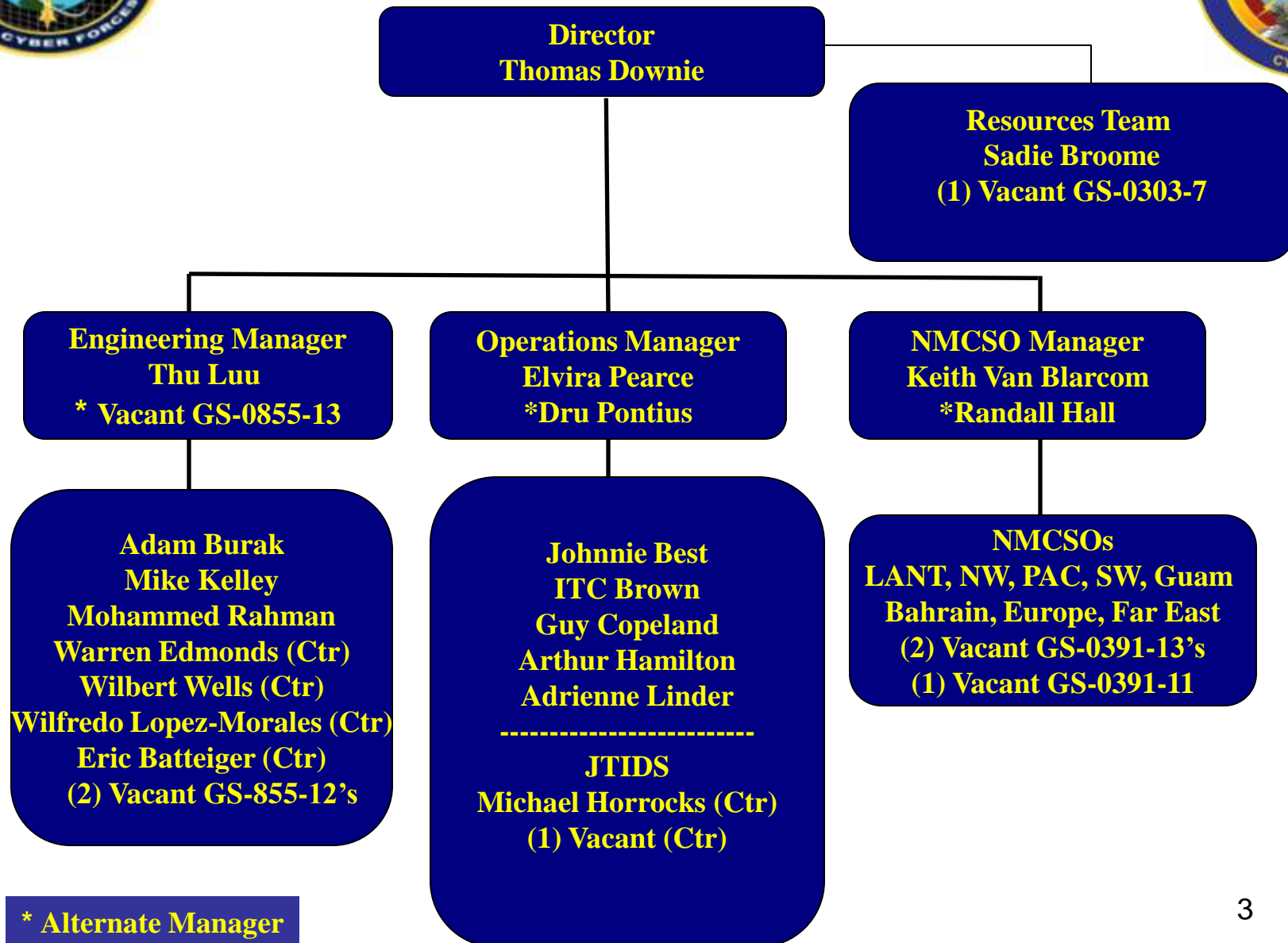
# OUTLINE



- **NMSC Organization**
- **A Transitioning Navy**
- **Reality**
- **NMSC Points of Contact**
- **Questions**



# NMSC Organization





# This is not your Father's Navy









# Knowledge Management



## With Today's Technology, Why is KM Important?

### Data Overloaded – Information Camouflaged



World War I:  
**30 wpm**  
Field Phone



World War II:  
**60 wpm**  
Radio



Vietnam:  
**100 wpm**  
SATCOM



Gulf War:  
**192,000 wpm**  
Networked  
Computers



War in 2010:  
**1.5 trillion wpm**  
Wideband Datalinks



We can  
transmit  
the entire

Library of  
Congress  
each  
minute

wpm - words per minute



# What drives us in Cyber



- ❑ Finding right signal (information), right time, anywhere in the Electro Magnetic Spectrum (EMS)



- ❑ Sharing data

- ❑ Understanding relevance

- We have found the needles, now we are looking for the needle in a stack of needles

- ❑ Generating the right effects...in milliseconds

**Search through  
the EMS... continuously**

- 100,000+ registered ships
- 312,000 active general aviation aircraft
- 800 active satellites in 2006
- 19 countries produce cruise missiles
- 1,000,000,000 cell phones







# Reality



- **We are in desperate need of spectrum education...up, down and all around. We all need to pay attention here! Do not waste time or money. Stay in the room and learn. Please...do this!**
- **NMSC moves to Ft. Meade on July 30<sup>th</sup>, 2011 (140 days or so )**
  - NMCSO SW (San Diego) will be your POC during our move.
  - No degradation of service.
- **Opportunity.**
  - take advantage of Thursday's Workshops (OPS and Engineering).
  - ask questions, get answers!
  - to busy in DC to answer every email and phone call. IMPOSSIBLE!! We do the best we can...be persistent.



# Reality

## (cont)



- **Importance of Accurate Data.**
  - Spectrum Data Call(s).
- **Programmatic Responsibility.**
  - Who is ultimately responsible? Naval Officer, Senior Civilian or Contractor?
- **Strategic Communications.**
  - Information Flow...who needs what, by when?
  - What is the intent?
  - What do you expect to achieve?
  - What was accomplished?
- **JTRS...experience says, time to pay more attention to this. Lots still to do....but does need to happen.**



# Reality (cont)



- **Times are changing!**
  - we have to change with them and, we must be smart about it.
- **New Programs**
  - SXXI On-line, SMITI, STITI, Stepstone etc.
  - rolling into GEMSIS? How many years away?
  - sustaining today's tools....tomorrow is a long way from now.
  - training, proficiency and then sustainment (Title X)
- **Articulation of Issues....must be succinct, factual.**
- **Our jobs are more important now, then they've ever been.**



# Reality (cont)



- **Outstanding Team....not without challenges though.**
  - spectrum certification backlog issue being addressed.
- **Statistically, the best in the Govt.**
  - frequency assignments.
  - the best FAS Rep in the govt works for us!
- **Very Proud Of The Organization!**



# DRU HARD AT WORK!!!







# NMSC Points of Contact



NIPR E-Mail: [navyspectrum.fct@navy.mil](mailto:navyspectrum.fct@navy.mil)

SIPR E-Mail : [navy.spectrum@navy.smil.mil](mailto:navy.spectrum@navy.smil.mil)

SIPR CAS Website: <http://205.0.132.75/don/so/site.nsf>

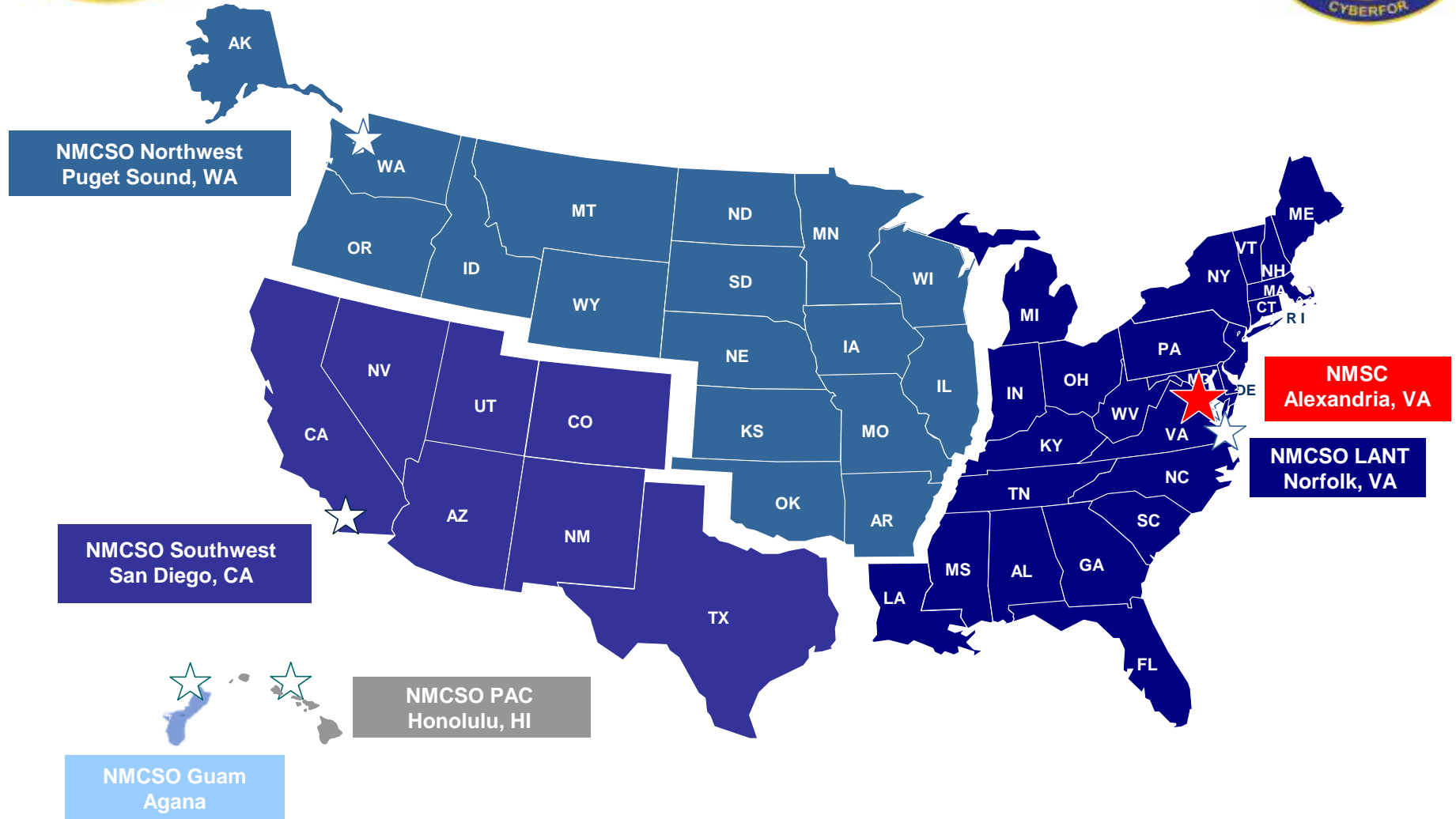
	Director	Engineering Manager	Operations Manager	NMCSOs Manager
Name	Tom Downie	Thu Luu	Elvira Pearce	Keith Van Blarcom
Phone	703-325-2750 DSN 221	703-325-2838 DSN 221	703-325-2822 DSN 221	808-477-9614 DSN 315
NIPR Email	Tom.Downie@navy.mil	Thu.A.Luu@navy.mil	Elvira.Pearce@navy.mil	Keith.Vanblarcom@navy.mil
SIPR Email	Thomas.Downie@navy.smil.mil	Thu.Luu@navy.smil.mil	Elvira.Pearce@navy.smil.mil	Keith.Vanblarcom@navy.smil.mil



*Questions?*



# NMSC Areas of Operation within the United States and Possessions





# Navy Marine Corps Spectrum Offices Worldwide

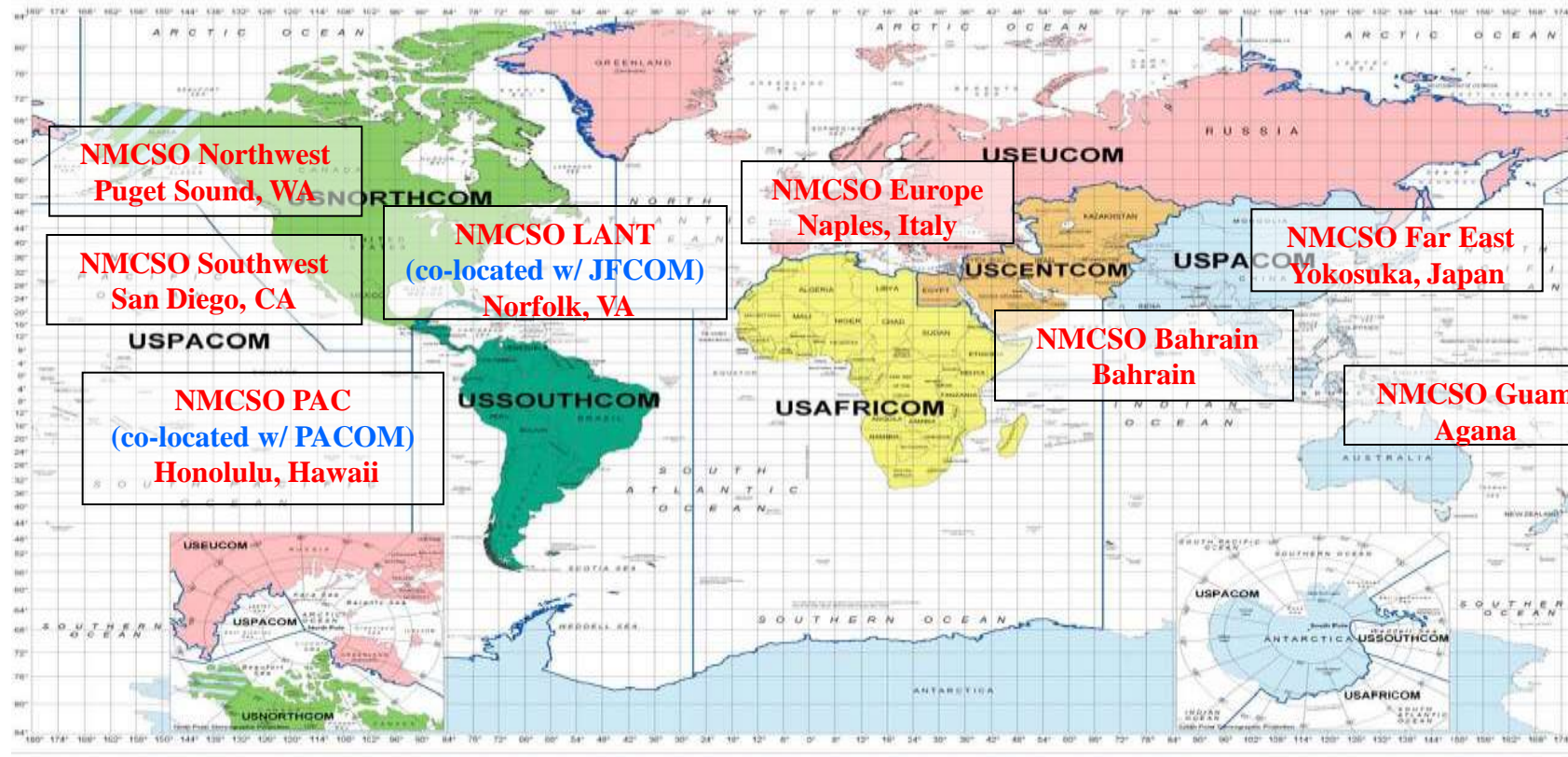


HE WORLD 1:60,000,000

THE WORLD WITH COMMANDERS' AREAS OF RESPONSIBILITY

EDITION 8 NGA  
BASED ON  
UNIFIED COMMAND PLAN  
17 DECEMBER 2008

SERIES



RIES 1107  
ITION 8 NGA



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State of Alaska assigned to USNORTHCOM's  
Area of Responsibility. Forces based in Alaska  
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The 1980 Israeli proclamation that  
Jerusalem is the national capital is  
not recognized by the United States.

\* West Bank and Gaza Strip: "Israel-occupied with current  
status subject to the Israel - Palestinian Interim Agreement -  
permanent status to be determined through further negotiation"

THE REPRESENTATION OF BOUNDARIES  
IS NOT NECESSARILY AUTHORITY





# NMSC Mission



- Per OPNAVINST 2400.20F, NNWC has designated the NMSC as the Navy and Marine Corps Center of Excellence for radio frequency and spectrum management.
- Support the Operational Electronic Warfare (EW) Spectrum Dominance directorate at NNWC.
- Exercise control of the electromagnetic spectrum for the Department of the Navy (DON) to support fleet/force operations.
- Review, coordinate, and process applications for equipment/system frequency allocations. CNO responsible for approval.
- Procure, protect, coordinate, allocate, and assign radio frequencies required within the DON at the National Level.





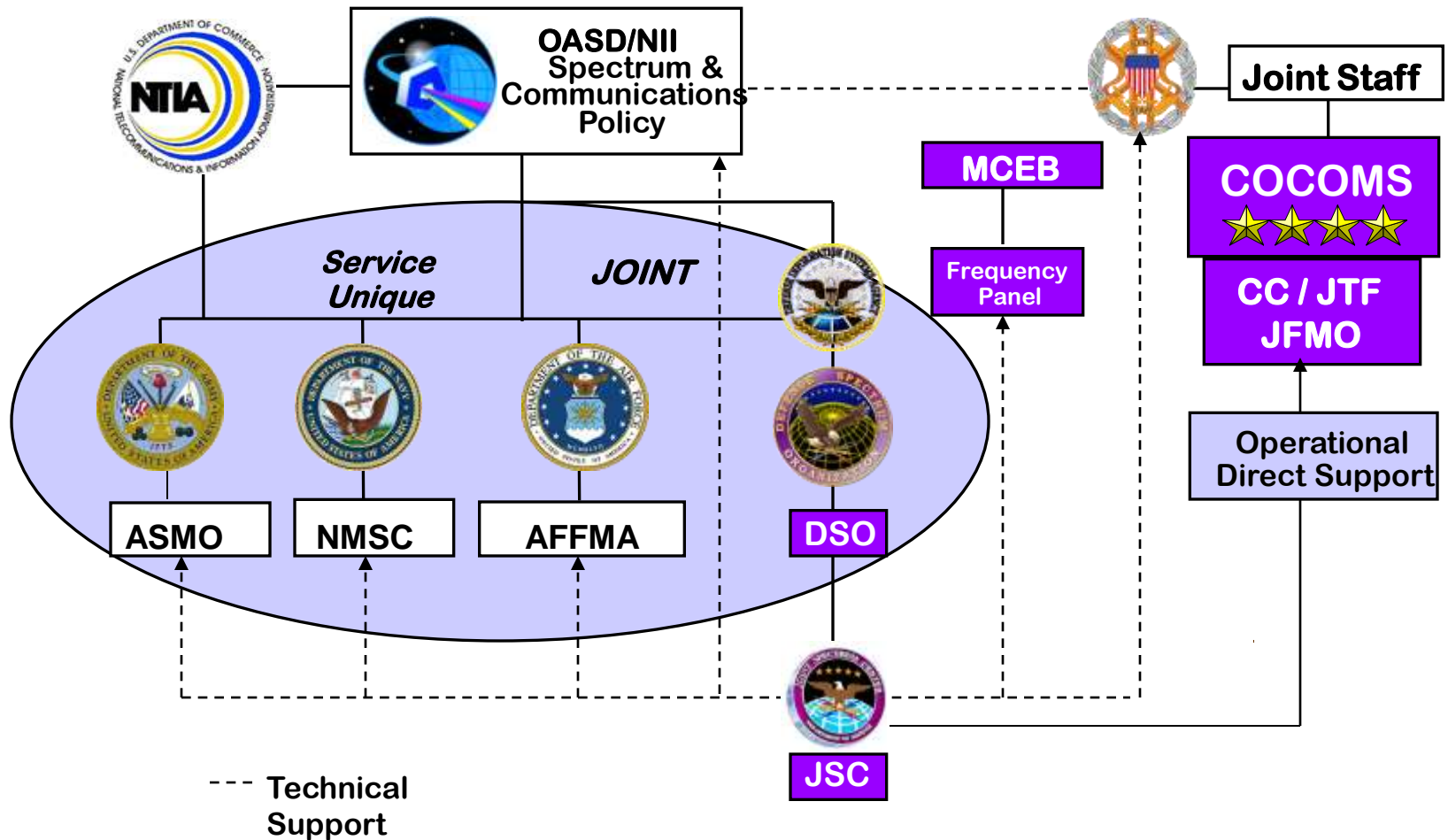
# NMSC Mission (cont'd)



- **Consolidate ashore spectrum management functions into regional support centers to support Naval afloat and ashore activities and commands.**
- **Represent the Department as directed in the proceedings of joint, national, and international electromagnetic spectrum management (SM) activities.**
- **Assist in developing and promulgating policies, procedures and guidance for DON use of the electromagnetic spectrum.**
- **Provide technical guidance and conduct analyses as required for total spectrum supportability of DON equipment and systems.**



# DOD Spectrum Management





# Military Communications-Electronic Board (MCEB) Frequency Panel (FP) Structure

